



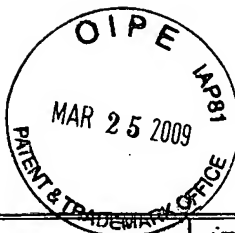
SHEET 1 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
				APPLICANT Tsutomu OHZUKU, et al.			
				FILING DATE September 1, 2004		GROUP 2838	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US 5,393,622	02/28/1995	Nitta et al.			
		US 5,370,948	12/06/1994	Hasegawa et al.			
		US 5,264,201	11/23/1993	Dahn et al.			
		US 5,629,110	05/13/1997	Kobayashi et al.			
		US 5,985,237	11/16/1999	Lu et al.			
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EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number + -Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation	
						Yes	No
		JP 09-199127	07/31/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 10-81521	03/31/1998	NIPPON CHEM IND CO LTD		Japan (w/ English Abstract)	
		JP 11-60243	03/02/1999	MITSUI MINING & SMELTING CO LTD		Japan (w/ English Abstract)	
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		JP 09-231973	09/05/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
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		JP 09-92285	04/04/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 08-171910	07/02/1996	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 09-129230	05/16/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 10-69910	03/10/1998	FUJI CHEM IND CO LTD		Japan (w/ English Abstract)	
		JP P2002-42813A	02/08/2002	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP P2001-195353A	07/19/2001	ROHM CO LTD		Japan (w/ English Abstract)	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
		"SOLID-STATE REDOX REACTIONS OF $\text{LiNi}_{1/3}\text{Co}_{1/2}\text{O}_2$ (R3m) FOR 4 VOLT SECONDARY LITHIUM CELLS", Ueda et al., J. Electrochem. Soc., Vol. 141, No. 8, August 1994 © The Electrochemical Society, Inc. pp. 2011-2014					
EXAMINER				DATE CONSIDERED			

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² Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Receipt date: 02/06/2009

10506298 - GAU: 1795



SHEET 1 OF 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Substitute for form 1449/PTO)

 ATTY. DOCKET NO.
043888-0325

 SERIAL NO.
10/506,298

 APPLICANT
Tsutomu OHZUKU, et al.

 FILING DATE
**September 01,
2004**

 GROUP
1795

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code ₂ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/AE/		European Search Report issued in European Patent Application No. EP 03707026.5 dated November 14, 2008
/AE/		DONG, Dianquan et al., "Synthesis of $\text{LiCu}_x\text{Mn}_{1-x}\text{O}_4$ and its Li^+ extraction/insertion reaction in aqueous solution," Database CA [online] Chemical Abstracts Service; XP-002502577
/AE/		OHZUKU, Tsutomu et al., "Electrochemistry of Manganese Dioxide in Lithium Nonaqueous Cell," Journal of the Electrochemistry Society, Vol. 137, No. 3, 1990, pp. 769-775, XP-002502572
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/AE/		SIGALA, C. et al., "Positive electrode materials with high operating voltage for lithium batteries: $\text{LiCr}_y\text{Mn}_{2-y}\text{O}_4$ ($0 \leq y \leq 1$)," Solid State Ionics, Vol. 81, No. 3-4, 1995, pp. 167-170, XP-002502574
/AE/		OHZUKU, Tsutomu et al., "Synthesis and Characterization of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ by Two-Step Solid State Reaction," Journal of the Ceramic Society of Japan, Vol. 110, No. 5, 1 May 2002, pp. 501-505, XP-002502575
/AE/		KANAMURA, Kiyoshi et al., "Electrochemical Characteristics of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes with Ti or Al Current Collectors," Journal of the Electrochemistry Society, Vol. 149, No. 3, 2002, pp. A339-A345, XP-002502576
/AE/		ARIYOSHI, Kingo et al., "Topotactic Two-Phase Reactions of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ (P4_32) in Nonaqueous Lithium Cells," Journal of the Electrochemistry Society, Vol. 151, No. 2, 2004, pp. A296-A303, XP-002502626

 EXAMINER
 /Alix Echelmeyer/

 DATE CONSIDERED
 02/19/2009

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		US					
		US					
FOREIGN PATENT DOCUMENTS							
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		European Search Report issued in European Patent Application No. EP 03707026.5 dated November 14, 2008					
		DONG, Dianquan et al., "Synthesis of $\text{LiCu}_{0.5}\text{Mn}_{1.5}\text{O}_4$ and its Li^+ extraction/insertion reaction in aqueous solution," Database CA [online] Chemical Abstracts Service; XP-002502577					
		OHZUKU, Tsutomu et al., "Electrochemistry of Manganese Dioxide in Lithium Nonaqueous Cell," Journal of the Electrochemistry Society, Vol. 137, No. 3, 1990, pp. 769-775, XP-002502572					
		SHIGEMURA, H. et al., "Structure and Electrochemical Properties of $\text{LiFe}_x\text{Mn}_{2-x}\text{O}_4$ ($0 \leq x \leq 0.5$) Spinel as 5 V Electrode Material for Lithium Batteries," Journal of the Electrochemistry Society, Vol. 148, No. 7, 2001, pp. A730-A736, XP-002502573					
		SIGALA, C. et al., "Positive electrode materials with high operating voltage for lithium batteries: $\text{LiCr}_y\text{Mn}_{2-y}\text{O}_4$ ($0 \leq y \leq 1$)," Solid State Ionics, Vol. 81, No. 3-4, 1995, pp. 167-170, XP-002502574					
		OHZUKU, Tsutomu et al., "Synthesis and Characterization of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ by Two-Step Solid State Reaction," Journal of the Ceramic Society of Japan, Vol. 110, No. 5, 1 May 2002, pp. 501-505, XP-002502575					
		KANAMURA, Kiyoshi et al., "Electrochemical Characteristics of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes with Ti or Al Current Collectors," Journal of the Electrochemical Society, Vol. 149, No. 3, 2002, pp. A339-A345, XP-002502576					
		ARIYOSHI, Kingo et al., "Topotactic Two-Phase Reactions of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ (P4 ₃ 2) in Nonaqueous Lithium Cells," Journal of the Electrochemistry Society, Vol. 151, No. 2, 2004, pp. A296-A303, XP-002502626					
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				FILING DATE September 1, 2004		GROUP 2838	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
/AE/		US 6,352,794 B1	03-05-2002	Nakanishi et al.			
/AE/		US 6,582,854 B1	06-24-2003	Qi et al.			
		US					
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EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No	
/AE/		JP 3244314	10-31-1991	KUBOTA KK		Partial English translation	
		JP 8-298115	11-12-1996	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,677,087	English Abstract only	
		JP 10-3921	01-06-1998	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,981,106	JAPAN (w/English abstract)	
/AE/		JP 2003-238165	8-15-2003	Ueda et al.	Corresponds to US 2003/008245		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/AE/		ROSSEN, E., et al., "Structure and Electrochemistry of $\text{LiMnNi}_2\text{O}_4$ ", SOLID STATE IONICS, 1992, page 311-318, Vol. 57, Elsevier Science Publishers B.V.					
EXAMINER /Alix Echelmeyer/				DATE CONSIDERED 11/19/2007			

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AE/

02/24/2009

(PTO-1449)

SERIAL NO.
10/506,298

APPLICANT
Tsutomu OHZUKU, et al.

FILING DATE
September 1, 2004

**GROUP
2838**

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

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EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number & -Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation	
						Yes	No
		JP 09-129230 A	05-16-1997	MATSUSHITA ELECTRIC IND CO LTD		X	
		JP 11-1323A	01-06-1999	SAKAI CHEMICAL INDUSTRY CO., LTD		X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

[illegible]

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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U.S. PATENT DOCUMENTS

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		US 6,551,744 B1	04-22-2003	Ohzuku et al.	
		US 2006/0204847 A1	09-14-2006	Ohzuku et al.	
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		JP 2001-185153	07-06-2001	Sanyo Electric Co.		JAPAN (w/English abstract)
		JP 2000- 149923	05-30-2000	FUJI CHEM IND CO LTD		JAPAN (w/English translation)
		JP 11-292547	10-26-1999	Ishihara Sangyo Kaisha Ltd		JAPAN (w/English abstract)
		JP 11-167919	06-22-1999	Nikki Chemical Co. Ltd		JAPAN (w/English abstract)
		JP 11-060246	03-02-1999	Sakai Chem Ind Co Ltd		JAPAN (w/English abstract and partial translation)
		JP 10-316431	12-02-1998	Fuji Chem Ind Co Ltd		JAPAN (w/English abstract and partial translation)
		JP 08-171910	12-16-1994	Matsushita Electric Ind Co Ltd		JAPAN (w/English abstract)

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		US			
FOREIGN PATENT DOCUMENTS					
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Code ₃ -Number + Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear
		JP 08-138670	05-31-1996	Toshiba Corp	JAPAN (w/English abstract)
		WO 98/57386	12-17-1998	Sanyo Electric Co., Ltd	JAPAN (w/English abstract)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
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		CHO, T. et al., "Preparation of Layered Li[Ni _{1/3} Mn _{1/3} Co _{1/3}]O ₂ as a Cathode for Lithium Secondary Battery by Carbonate Coprecipitation Method," Chemistry Letters, 02-24-2004, pg 704-705, Vol.33 No.6, The Chemical Society of Japan, Japan			
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		US			
FOREIGN PATENT DOCUMENTS					
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear
		EP 1 295 851 A1	03-26-2003	Hitachi Maxell, Ltd.	Translation Yes No X
		WO 02/40404 A1	05-23-2002	Hitachi Maxell, Ltd.	JAPAN (w/English abstract) Corresponds w/ US 2003/0260496
		JP 05-283076	10-29-1993	Matsushita Electric Ind Co. Ltd.	JAPAN (w/English abstract)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
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		Observations of a third party submitted to Japanese patent application No. 2002-303294 corresponding to U.S.S/No. 10/277989			
		YOSHIO, M. et al., "Preparation and properties of $\text{LiCo}_x\text{Mn}_{1-x}\text{Ni}_{1-x}\text{O}_2$ as a cathode for lithium ion batteries," Journal of Power Sources, August 17, 1998, pg 176-181, Vol. 90, Elsevier			
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		LU, Z. et al., "Layered Cathode Materials $\text{Li}[\text{Ni}_{1-x}\text{Li}_{1-2x}\text{Mn}_{2x}]\text{O}_2$ for Lithium-Ion Batteries			
		PARK, H. et al., "Relationship between Chemical Bonding Character and Electrochemical Performance in Nickel-Substituted Lithium Manganese Oxides," J. Phys. Chem., 05-03-2001, pg 4860-4866, Vol. 105, American Chemical Society			
		NEUDECKER, B.J. et al., "Lithium Manganese Nickel Oxides $\text{Li}_x(\text{Mn}_y\text{Ni}_{1-y})_{2-x}\text{O}_2$," J. Electrochem. Soc., December 1998, pg 4148-1459, Vol. 145, No. 12, The Electrochemical Society, Inc.			
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
				APPLICANT Tsutomu OHZUKU, et al.			
				FILING DATE September 1, 2004		GROUP 2838	
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